Name: _____   Roll No. _____

SIDDEEQ PUBLIC SCHOOL

ENTRY TEST … **47** **MATHEMATICS** Max. Marks:**35**   ADMISSION to GRADE: **8**

Checked by	Srv #	Sign:	Rechecked by	Srv #	Sign:	Marks:

1. **Complete the following mathematical statements.**   (1.0×4)

    i. (Pi) π is the constant ratio between the circumference and _____ of the circle.

    ii. Additive inverse of Multiplicative identity is _____.

    iii. The degree of the product of x and $(x+y^2)$ is _____ .

    iv. If X={factors of 6}, then the number of elements in its power set will be _____.

2. **If A=Set of letters of "bag", B= Set of vowels and C={a} , then verify:**
$$A\cap(B\cap C) = (A\cap B)\cap C \qquad (4.0)$$

_____

_____

_____

_____

_____

_____

3. **Factorize:** $4m^2 - 25n^2$ (4.0)

_____

_____

_____

_____

_____

_____

4. **If the radius of the circle is 50m, calculate its area.** *(Use $\pi \approx 3.14$)*   (4.0)

_____

_____

_____

_____

_____

5. **Expand** $(\frac{2}{3}x +3y)^2$
(Use suitable identity)   (4.0)

_____

_____

_____

_____

_____

6. **The food is available for 550 people in a camp for 1 month. If 50 people leave the camp, how long will the food last now?** (5.0)

_____

_____

_____

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_____

7. **The diameter of a car's wheel is 49cm. In how many revolutions will it travel the distance of 770cm?** *(Use $\pi \approx \frac{22}{7}$)* (5.0)

_____

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8. **A gardener needs to fence around a square shaped garden. If the area of the garden is 4096m^2, what is the length of the fence?** (5.0)

_____

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Name: _____   Roll No. _____

SIDDEEQ PUBLIC SCHOOL

<u>ENTRY TEST ... **47**</u>   **SCIENCE**   <u>Max. Marks: **30**</u>   <u>ADMISSION to GRADE: **8**</u>

Checked by	Srv #	Sign:	Rechecked by	Srv #	Sign:	Marks:

(Note: Erasing, cutting and over writing is not allowed in Q.1, 2 & 3)

Q.1   Choose the best option.   (1.0×6)

(i) If there is less oxygen in a plant's environment then the process of:

   (A)   photosynthesis will increase.   (B) photosynthesis will decrease.

   (C)   respiration will increase.   (D) respiration will decrease.

(ii) _____ have thick muscular walls and carry mostly oxygenated blood.

   (A)   Arteries   (B)   Veins   (C)   Capillaries   (D)   Blood vessels

(iii) Which of the following elements have 2, 8, 4 distribution of electrons in shells.

   (A) $^{28}_{14}\text{Si}$ (B) $^{31}_{15}\text{P}$ (C) $^{14}_{7}\text{N}$ (D) $^{27}_{13}\text{Al}$

(iv) Sodium forms Na^+ ion and oxygen forms O^{2-} ion. The formula of sodium oxide is:

   (A)   NaO   (B) NaO_2 (C) Na_2O_2 (D) Na_2O

(v) If you travel 300km in 3 hours, what is the speed in km/h?

   (A)   100km/h   (B)   150km/h   (C)   300km/h   (D)   all are incorrect

(vi) Which of the following is a longitudinal wave?

   A)   Water wave   B)   X-ray

   C)   Seismic S-wave   D)   Sound wave

Q.2   Fill in the blanks.   (1.0×6)

(i) Adaptive/learned immunity is also known as _____ line of defence.

(ii) Smoke is an example of _____ in gas solution.

(iii) Method of heat transfer that takes place due to density difference is called _____.

(iv) _____ is the process of burning of fuel in the presence of oxygen to produce carbon dioxide, water and energy in the form of heat.

(v) In the food preservation method of _____, the moisture is removed from the food to stop the growth of microorganisms.

(vi) If a plant has one main root growing downwards then it is _____ system.

Q.3   Decide whether the given statements are <u>True 'T'</u> or <u>False 'F'</u>.   (1.0×6)

(i) Nostrils ⟶ Nasal cavity ⟶ Pharynx ⟶ Larynx ⟶ Trachea   **T / F**

   Blood ⟵ Alveoli ⟵ Bronchus ⟵ Bronchioles ↙

(ii) Burning of candle is a physical as well as chemical change.   **T / F**

(iii) The louder sound of beating a drum has sound waves of greater amplitude.   **T / F**

(iv) Electrostatic force between charges is an example of contact force.   **T / F**

(v) When we mix oil and water, they get separated into two layers in which water is the top layer and oil is the bottom layer.   **T / F**

(vi) Chlorine atom gets stable by losing or sharing 1 electron.   **T / F**
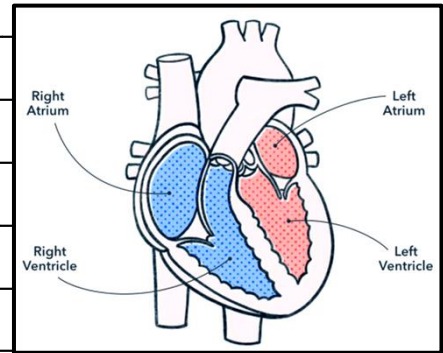
Q.4 **Answer the following questions.** (2.0×6)

(i) **Briefly explain transpiration and transpiration pull in plants.**

_____

_____

_____

_____

_____

(ii) **Observe the given figure of human heart. Explain what is happening at:**

Right atrium: _____

_____

_____

Left atrium: _____

_____

_____

(iii) **Explain the affect of increase in temperature and pressure on the solubility of gases.**
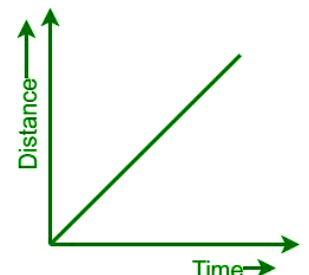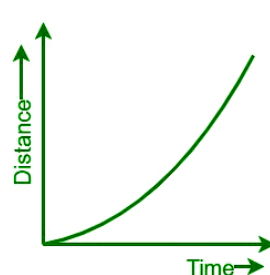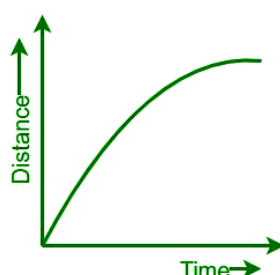
Increase in temperature: _____

_____

Increase in pressure: _____

_____

(iv) **Briefly explain the covalent bond formation in hydrogen molecule.**

_____

_____

_____

_____

_____

(v) **Differentiate between:**

CONDUCTION	RADIADION

(vi) **Interpret the speed of object in the given distance-time graphs, whether it has uniform speed, increasing, decreasing speed or it is at rest.**
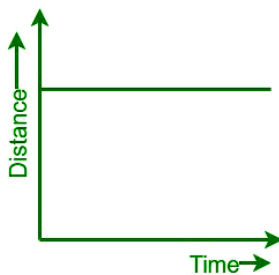
SIDDEEQ PUBLIC SCHOOL

ENTRY TEST … **47**	**ENGLISH**	ADMISSION to GRADE: **8**	
Checked by (Service # & Initials)	Rechecked by (Service # & Initials)	Max. Marks	Marks Secured
		35	

Q.1 (A) Encircle the Correct Spellings. (0.5x2)

- duplecate / duplicete / duplicate / dupllicate

- volunteer / vulunteer / volunter / voluntear

(B) Provide Meanings of the following Words either in English or in Urdu.

(1.0x3)

familiar		cease		significant	

(C) Complete the Columns. (1.0x4)

Words	Opposites
freedom	
demand	

Nouns	Verbs	Adjectives
	admire	admirable
impression	impress	

(D) Choose the Correct Word given in brackets to Complete each Sentence.

(0.5×4)

- It is not _____ to take so much _____ for such a short distance. (fare, fair)

- I wrote a list of _____ products in my _____. (dairy, diary)

Grammar

Q.2 (A) Fill in the Blanks by Choosing the Correct Options from the brackets.

(1.0×7)

- Some of the books on the shelf _____ dusty. (are/ was / is)

- _____ he still work at the factory? (Do / Does / Has)

- This popular book _____ weekly. (is issued/ is issuing, issues)

- Look, the sun _____ over the hills (rises / rose, is rising)

- The teacher was looking _____ some gifts to distribute _____ the students. (for / between / among / into)

- He is _____ intelligent _____ hard working. (though / not only / yet / but also)

- The minister has constituted _____ one-man committee to control _____ increase in prices. (a / an / the)

(B) Do as Directed.   (1.5×4)

- My sister is buying a new dress for herself.   (Change into Interrogative)

_____

- The gardener takes care of the plants.   (Change into Present Perfect)

_____

- The lion attacked the zebra in the forest.   (Change into Passive Voice)

_____

- The teacher said to the student," You may complete your work."

(Change into Indirect Speech)

_____

Sentence Construction

Q.3   Make Meaningful Sentences of the given Words.   (1.5×2)

- recharge _____

- actively _____

Q.4   Translate into English.   (1.5×2)

■ وہ ہر جمعے ناخن کاٹتا ہے۔

_____

■ تمام طلباء اپنا سبق یاد نہیں کرچکے ہیں۔

_____

Q.5   Compose a Paragraph of Six Sentences on "The Personality I Like the Most".   (6.0)

_____

_____

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